

Fabien Benureau

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STATUS 29 years old - French - Single

RESEARCH INTERESTS Exploratory behaviour, Behavioural Diversity, Embodiment, Computational Models of Intrinsic Motivations, Developmental Robotics, Developmental Psychology, Evolutionary Robotics, Evo-Devo-Robo Approaches.

CURRENT STUDY

PhD Thesis at INRIA FLOWERS September 2010 to May 2015
INRIA Bordeaux, Bordeaux, France
PhD Thesis in developmental robotics on the Reuse of Autonomous Exploration across Tasks.

Assistant Editor for the AMD Newsletter September 2013 - Present

ICDL-Epirob 2014 August 2014
Genova, Italy

ICDL-Epirob 2013 August 2013
Osaka, Japan

Robotic art exhibition September 2011
Fondation Cartier pour l'art contemporain, Paris, France
An experiments as an art installation in the exhibition "Mathematics: A Beautiful Elsewhere", exploring artificial curiosity and language formation, in collaboration with David Lynch and Alexander Gromov.

VVV2011 Summer School July 2011
Sestri Levante, Italy
Work on iCub programming and object manipulation.

2011 IM-CLeVeR Spring School April 2011
Capoccacia, Italy

Participation in the "Intrinsic motivations for forming actions and producing goal directed behavior" project.

FIAS winter school Intrinsic Motivations: From Brains to Robots
November 2012

Frankfurt, Germany

Participation in the "Playful acquisition of basic behavioral skills" project.

PUBLICATIONS **Autonomous Reuse of Motor Exploration Trajectories**, Fabien Benureau and Pierre-Yves Oudeyer, *ICDL-Epirob 2013*, Osaka, Japan

EDUCATION **Independent Research** September 2009 to July 2010
Paris, France

Continuation of the work started at Waterloo on imperfect-information games, along with a commitment to the Red Cross as an EMT and work on educative mobile applications for learning calculus.

Master 2 of Computer Science September 2008 to July 2009
University of Waterloo, Waterloo, Ontario, Canada

Internship on Game Theory
Internship on better abstractions and efficient Nash-equilibrium algorithms for stochastic, imperfect information games.

First Semester
Courses on Software Architecture, Cloud Distributed Databases, Game Theory.

Master 1 of Computer Science
Internship on the INRIA FlowVR Project July to August 2008
INRIA, Grenoble, France

The internship is focused on information visualization and graph algorithms. The goal is to find innovative and performance-efficient ways to display hierarchical graph representing parallel applications.

Second Semester February to July 2008
La Sapienza, Roma, Italy

Courses on Distributed Systems, Web Information Extraction, Computer Graphics, Parallel and Distributed Algorithms, LegoLab: Robotic Experimentation, Concurrency Theory, Information Theory.

First Semester September 2007 to February 2008
Ecole Normale Supérieure de Lyon, Lyon, France
Courses on Parallel Algorithms; Protocols and Stochastic Processes Analysis; Semantics of Parallel Algorithms (π -calculus); Probability, Random Variables, and Stochastic Processes; Epistemology; American Literature (essay on the Beat Generation).

Licence 3 of Computer Science

Internship on the **Ocsigen server** May to August 2007
PPS Laboratory, Paris, France
Worked on automatic decompilation through λ -calculus-based techniques with Vincent Balat.

First and Second Semester September 2006 to May 2007
Ecole Normale Supérieure de Lyon, Lyon, France
(Bachelor's degree equivalent. Course followed : Algorithms, Computer Architecture (eventually designed and engineered of a processor), Programming, Automata and Rewriting, Graph Algorithms, Computer Systems, Semantics and Proof Theory, Integrated Project (compiler from scratch), ACM contest preparation.

Classes préparatoires, September 2003 to June 2006
Lycée Marcelin Berthelot, Saint Maur, France
Those are intensive years of preparation in order to take the entrance exam of the ENS. Main courses are Mathematics (16 hours a week), Physics (10 hours a week), Computer Science (6 hours a week).

TECHNICAL SKILLS	Operating systems : Technical knowledge of Linux, Mac OS X. Programming : Python, C++, Java, Ocaml, Objective C. Hardware : Servomotor programmation and operation. Editorial skills.
LANGUAGE SKILLS	Fluent English and French Solid Italian Basic (reading) understanding of Russian
OTHER HELD POSITIONS	Writer at the Inria's newspaper. (2013-2014) [volunteer position] Volunteer and EMT for the Red Cross. (2009-2011) Representative of the students at the Student Committee of the ENS Lyon. (2007-2008) [elected position] Head editor of the student's newspaper. (2007-2008) [volunteer position]